CD4 Monoclonal Mouse Antibody (CD4/1604)



Product Description

The immunogen for this Mab is derived from the extracellular domain of CD4, a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This protein is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. The majority of peripheral T-cell lymphomas are derived from the T-helper/regulatory cell subset so that most mature T-cell neoplasms are CD4 /CD8-. Anti-CD4 is used in the immunohistochemical staining of lymphoproliferative disorders to evaluate tumors with CD4 aberrant expression. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. **Catalog number key for antibody number 1604, CD4 Monoclonal Mouse Antibody (CD4/1604)**

Antibody number #1604 Antibody reactivity CD4				
Antibody reactivity CD4	#1604			
(target) Antibody type Primary	Primary			
Host species Mouse				
Clonality Monoclonal				
Clone CD4/1604				
Isotype IgG2b, kappa				
Molecular weight 55 kDa				
Synonyms L3T4; Leu3; Ly-4; Lymphocyte antig CD4; p55; T cell antigen T4/LEU3; differentiation antigen L3T4; T-cell surface antigen T4/Leu-3; T-cell sur glycoprotein CD4	T cell			
Human gene symbol CD4				
Entrez gene ID 920				
SwissProt P01730				
Unigene 631659				
Immunogen Recombinant human CD4 protein extracellular domain fragment (arou aa 245-392) (exact sequence is proprietary)	nd			
Antibody target cellular Plasma membrane				
Verified antibody Flow (surface) (verified)				
applications Species reactivity Human				
Antibody application notes ELISA: For coating, order Ab without BSA; Optimal dilution for a specific application should be determined, Higher concentration may be required direct detection using primary antibe conjugates than for indirect detection with secondary antibody	ed for			
Positive control Human peripheral blood mononucle cells (PBMCs), CCRF-CEM or HL-6				
Lymph node or tonsil.				
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Lymph node or tonsil. Shipping condition Room temperature Storage Conditions Storage Conditions Storage Conditions Store at 2 to 8 °C, Protect fluoresce conjugates from light, Note: store BSA-free antibodies at -10 to -35 °c.	% : 0.1 l: 0.2 izide,			
Lymph node or tonsil. Shipping condition Storage Conditions Store at 2 to 8 °C, Protect fluoresoc conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Regulatory status For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.19 BSA/0.05% azide, HRP conjugates mg/mL in PBS/0.05% BSA/0.05% aSA, Purified, BSA-free: In mg/mL in PBS/0.05% BSA/0.05% a Purified, BSA-free: In mg/mL in PBS/0.05% aside, PBSA-free: In mg/mL in PBS/0.05% aside, PBSA-free: PBSA-fre	% : 0.1 I: 0.2 Izide,			
Lymph node or tonsil. Shipping condition Storage Conditions Span Conditions For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.19 BSA/0.05% azide, HPP conjugates mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% as Devention of the PBS without azide Shelf life Guaranteed for at least 24 months f date of receipt when stored as	% : 0.1 I: 0.2 Izide,			

Call us: 800-304-5357 Email: btinfo@biotium.com

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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